

KOSHIHIKARI



KASALATH

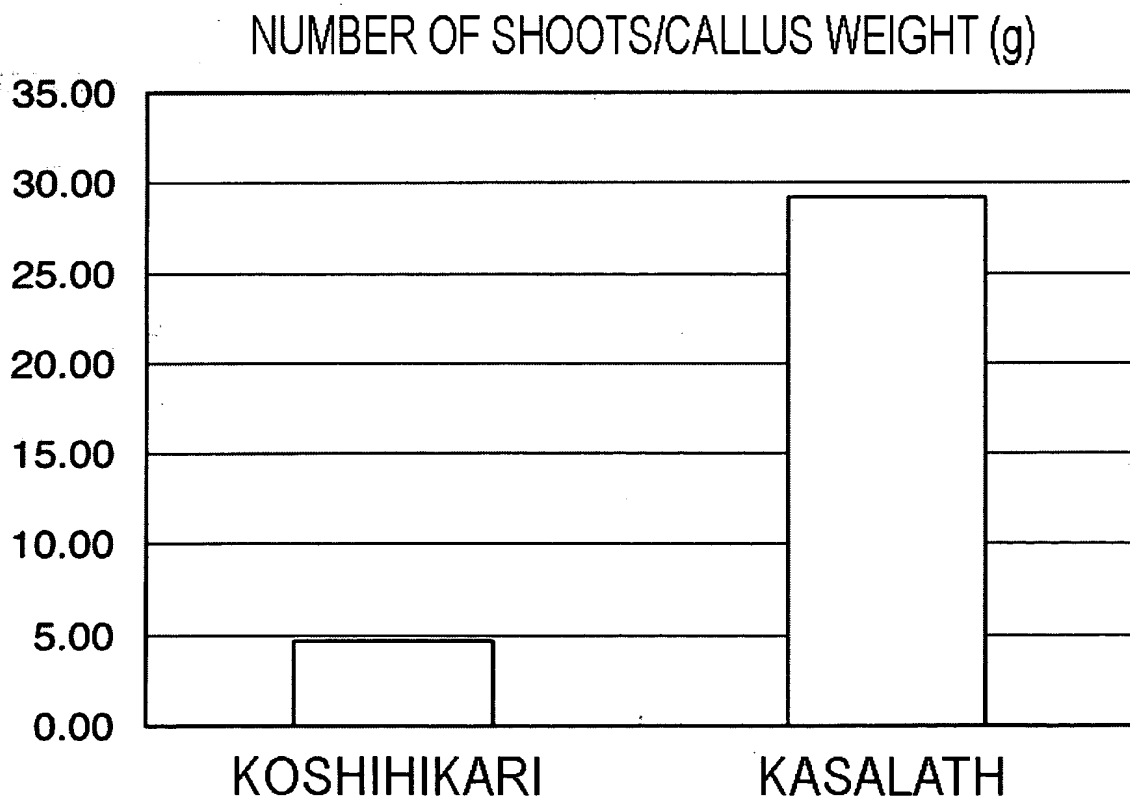


FIG. 1

BEST AVAILABLE COPY

BEST AVAILABLE COPY

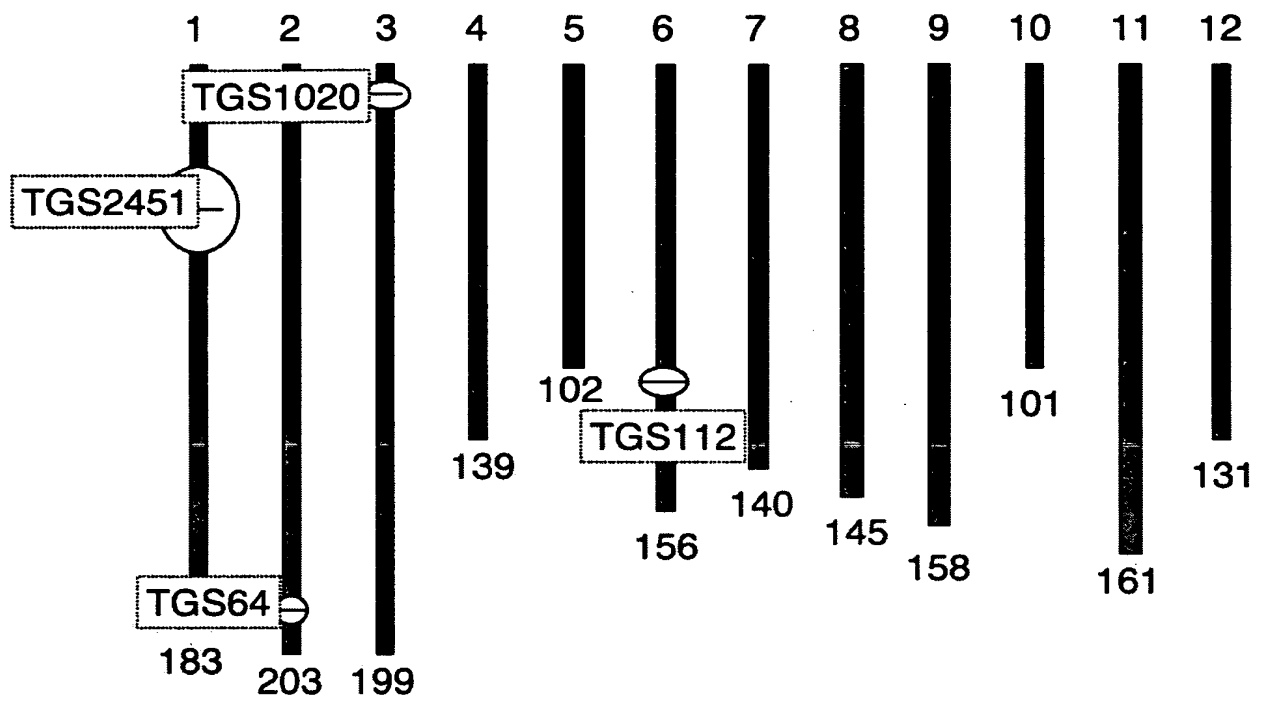


FIG. 2

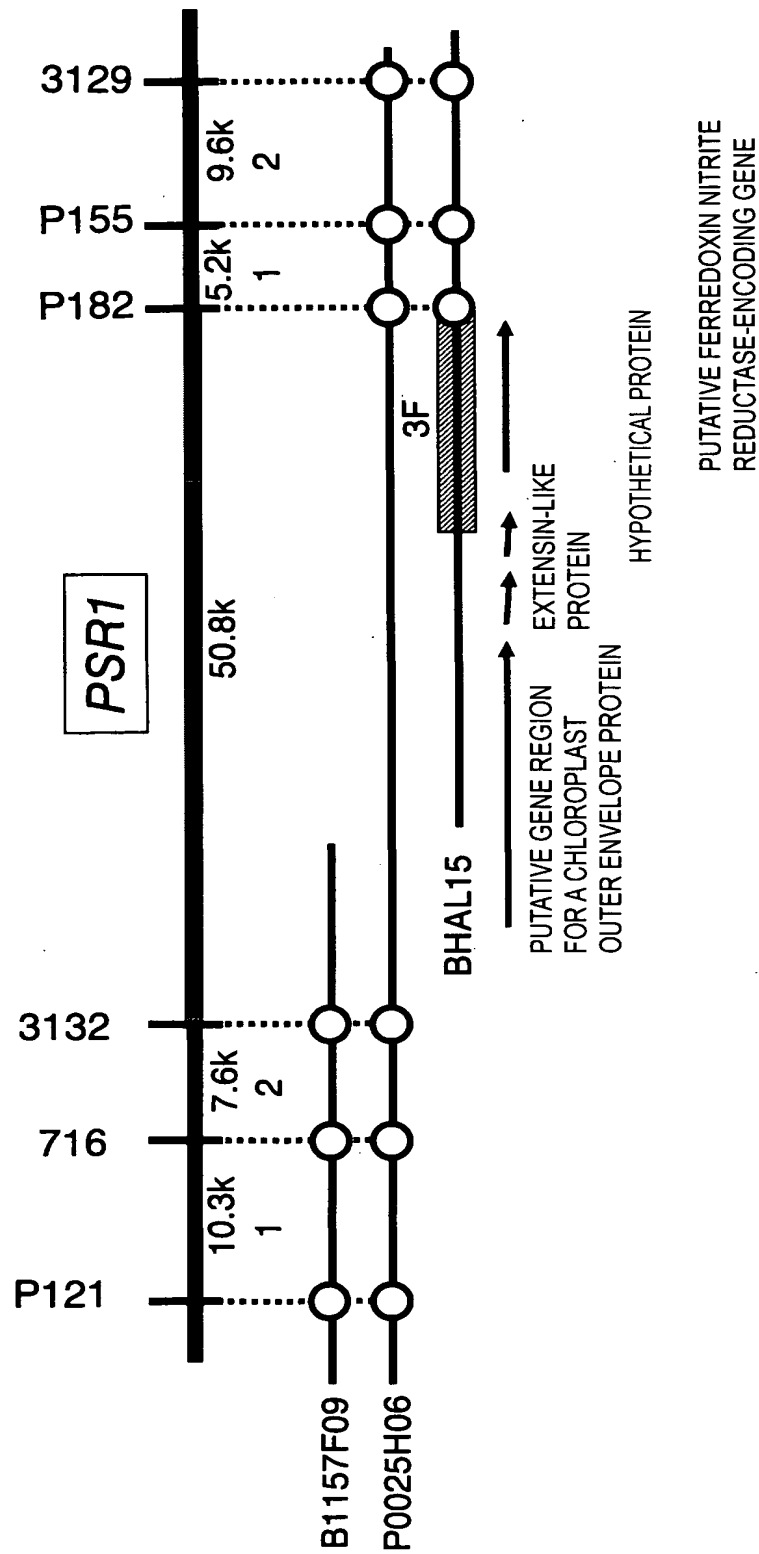
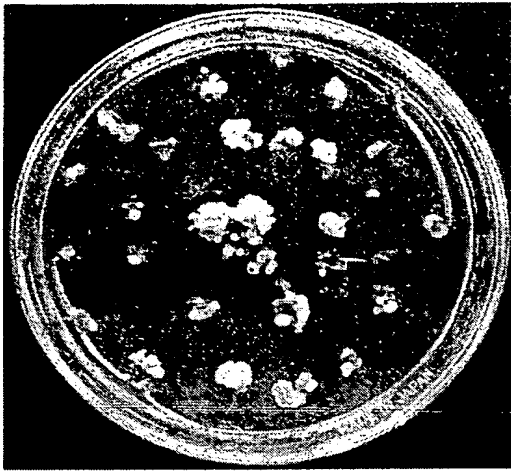


FIG. 3

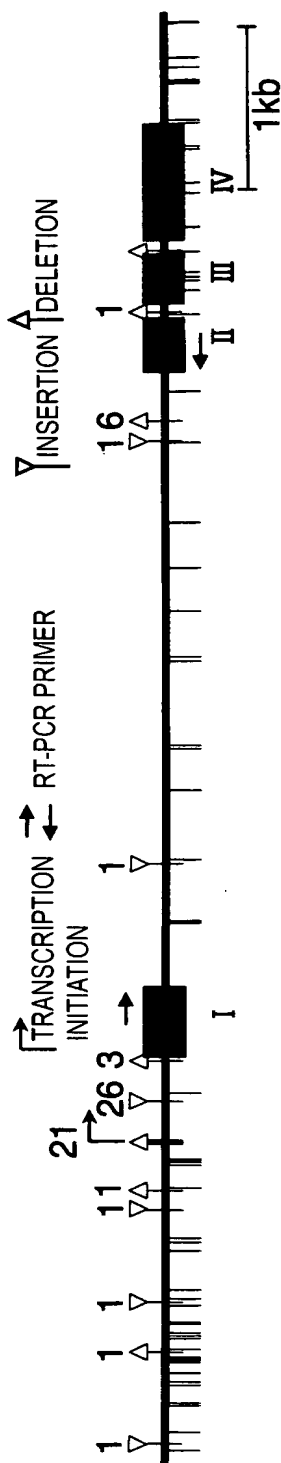


VECTOR



3F

FIG. 4



1 MASSASLQRFLPPYPHAAASRCRPPGVRARPPVQSSTVSAPSSSTPAADAEAVSAERLEPRV 60
 61 EQREGRYWVLKEKYRTGLNPQEKVKLGKEPMSLFMEGGIKELAKMPMEEIEADKLSKEDI 120
 121 DVRLKWLGLFHRRKHQYGRFMMRLKLPNGVTTSEQTRYLASVIEAYGKEGCADVTTTRQNW 180
 181 QIRGVTLPDVPAILDGLNAVGLTSLQSGMDNVRNPVGNPLAGIDPDEIVDTRSYTNLLSS 240
 241 YITSNFGQNPITITNLPRKWNVCVIGSHDLYEHPHINDLAYMPAVKGGKFGFNLLVGGFIS 300
 301 PKRWEELPLDAWVPGDDIIPVCKAVLEAYRDLGTRGNRQKTRMMWLI DELGMEAFRSEV 360
 361 EKRM PNGVLERAAP^EDLIDKKWQRRDYLGVHPQKQEGMSYVGLHVPVGRVQAADM FELAR 420
 421 LADEYSGGELRLTVEQNIVIPNVKNEKVEALL^SEP LLQKFSPQPSLLKGLVACTGNQFC 480
 481 GQAI IETKQRALLVTSQVEKLVSPRAVRMHWTGCPNSCGQVQVADIGFMGCLTKDSAGK 540
 541 IVEAADIFVGGRVGS DSHLAGAYKKSVP CDELAPIVADILVERFGAVRREREDEE 596

(SEQ ID NO: 3 OR 6)

FIG. 5

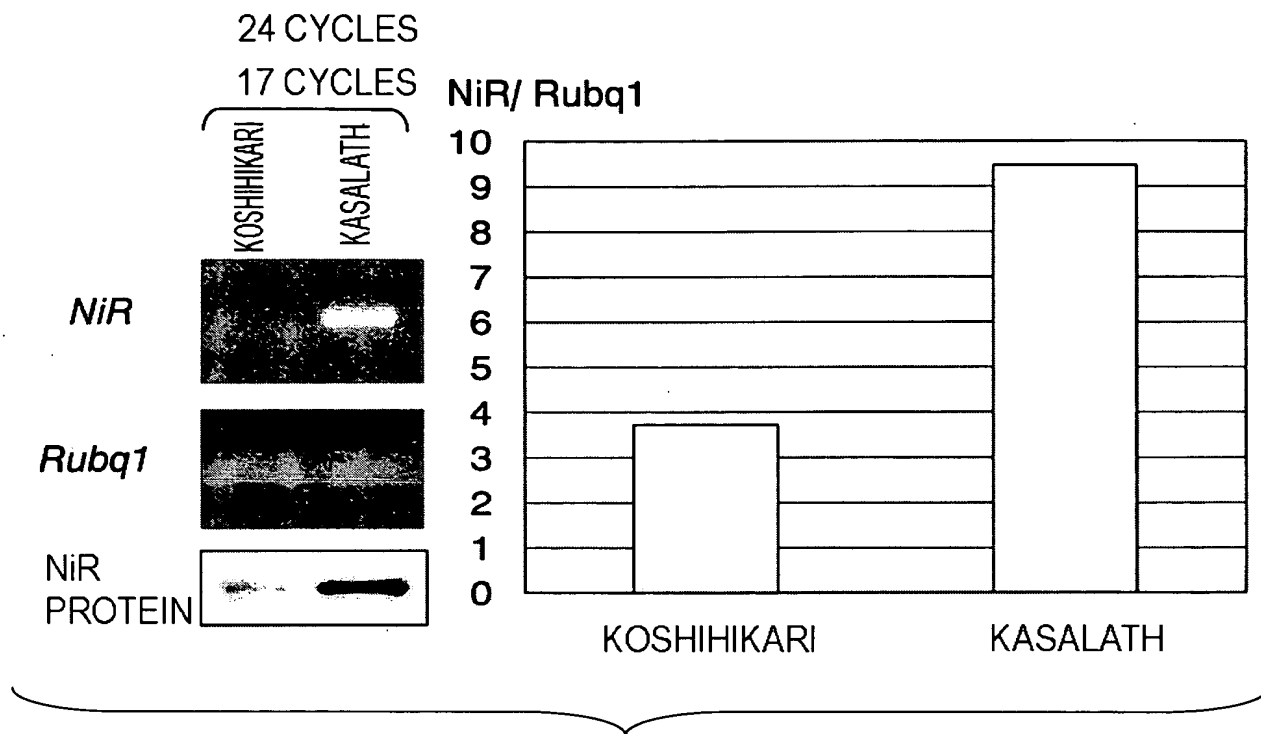


FIG. 6

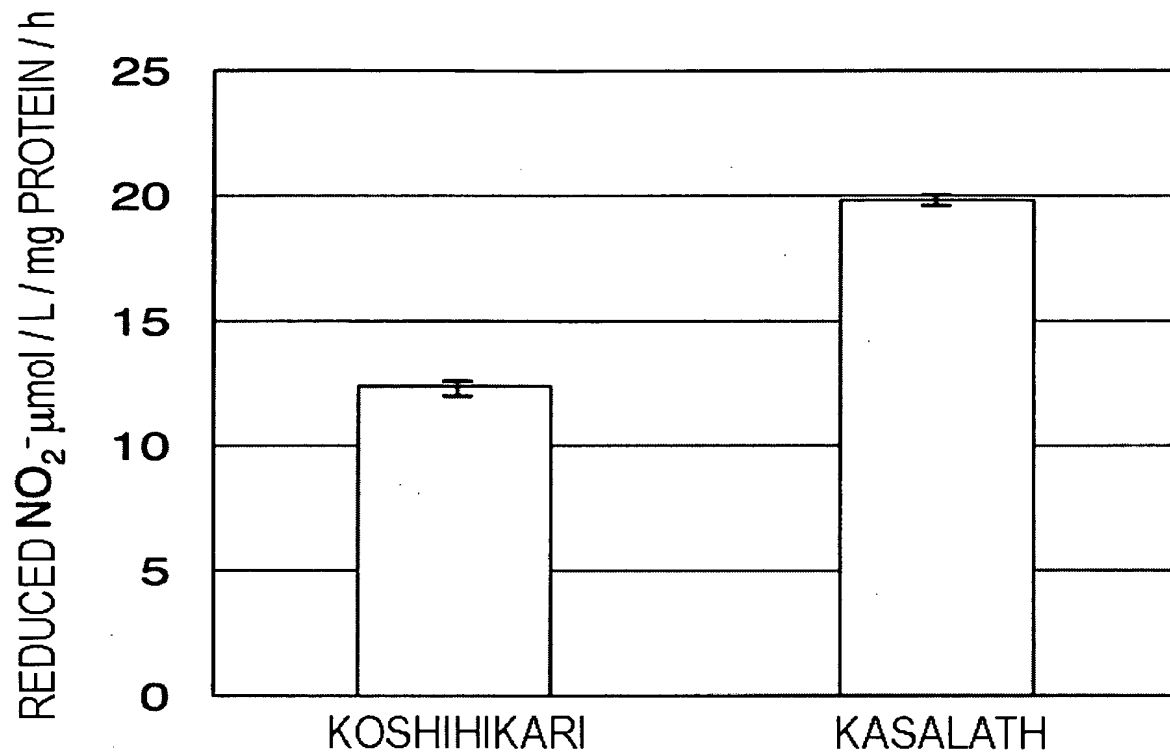
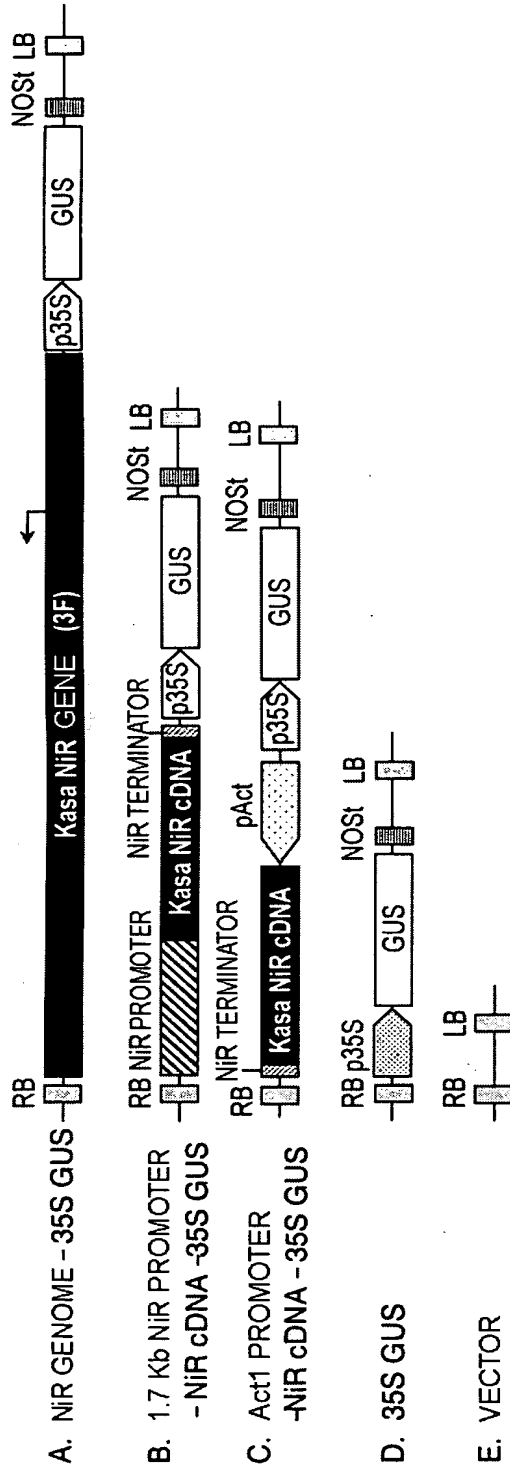
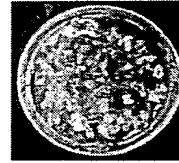
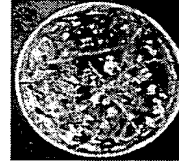
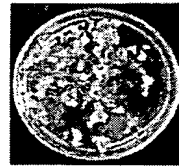


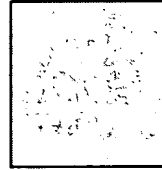
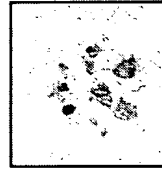
FIG. 7



REGENERATION RATE



GUS EXPRESSION



A

B

C

D

E

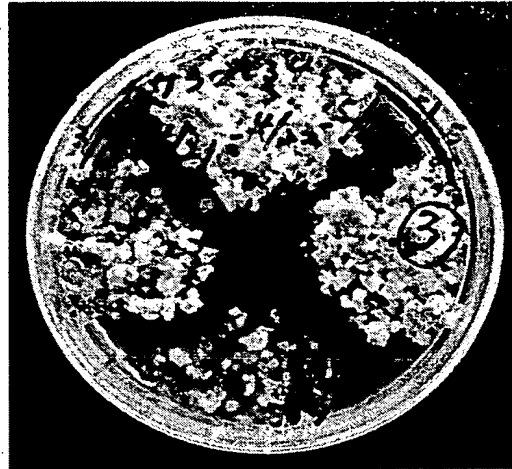
B

D

	REGENERATED CALLI	GUS-STAINED CALLI	% GUS-STAINED CALLI
A. NIR GENOME - 35S GUS	29	28	97
B. 1.7 kb NiR PROMOTER - NiR cDNA - 35S GUS	54	48	88
C. Act1 PROMOTER - NiR cDNA - 35S GUS	42	34	81

FIG. 8

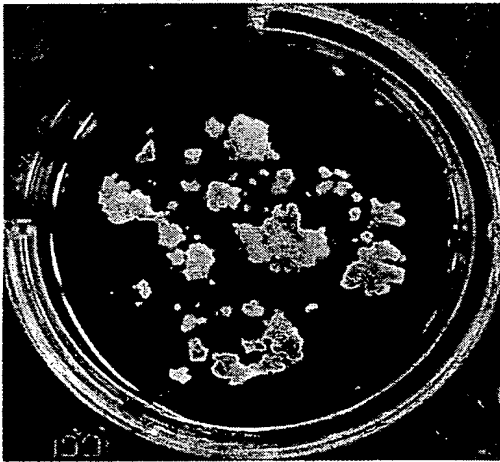
+NaNO₂



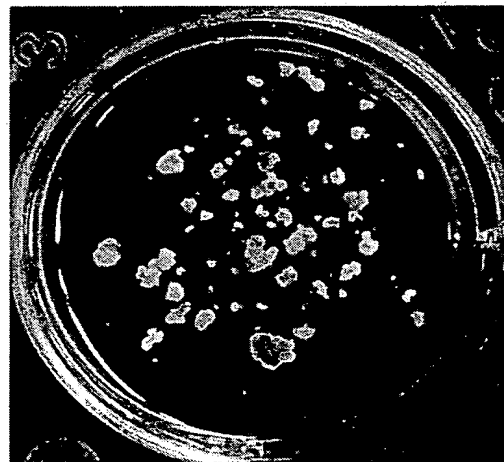
a

b

GUS-STAINED



a



b

FIG. 9